

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1. (Currently Amended) A resistor comprising:

a substrate having a width shorter than a length of said substrate;

a pair of electrodes disposed on said substrate, said pair of electrodes being disposed on both end portions of said substrate along said width;

a resistor element disposed between said pair of electrodes, said resistor element comprising side sections, each of said side sections connected to each of said pair of electrodes along a substantial portion of a length of said pair of electrodes along said width, and

not more than a single S-shaped section disposed between said side sections, said S-shaped section being free of a trimming portion.

Claim 2. (Previously Amended) The resistor of claim 1, wherein a width of at least one of said side sections of said resistor is wider than a width of said S-shaped section.

Claim 3. (Previously Amended) The resistor of claim 1, wherein at least one of said side sections has a trimmed portion.

Claim 4. (Previously Amended) The resistor of claim 1, wherein thickness of said side sections of said resistor element are twice as thick as said S-shaped section.

Claim 5. (Previously Amended) The resistor of claim 3, wherein a width of said side section of said resistor element where the side section extends to said S-shape section is wider than a width of said S-shaped section.

Claim 6. (Currently Amended) A method of manufacturing a resistor comprising the steps of:

forming a pair of electrodes on a substrate; and

forming a resistor element between said pair of electrodes, said resistor element comprising i) rectangular sections connected to each of said pair of

electrodes along a substantial portion of a length of said pair of electrodes along a width of said substrate and ii) not more than a single S-shaped section disposed between said rectangular sections, said S-shaped section being free of a trimming portion.

Claim 7. (Original) The method of manufacturing resistor of claim 6, wherein said resistor element is formed by printing.

Claim 8. (Previously Amended) The method of manufacturing resistor of claim 6, wherein portion of said side sections is trimmed to adjust a resistance.

Claim 9. (Previously Added) The resistor of claim 1, wherein said side sections are rectangular.

Claim 10. (Previously Added) The method of manufacturing a resistor of claim 6, wherein said side sections are rectangular

Claim 11. (Currently Amended) A resistor comprising:

- a substrate having a width shorter than a length of said substrate;

- a pair of electrodes disposed on said substrate, said pair of electrodes being disposed on both end portions of said substrate along said width;

- a resistor element situated between said pair of electrodes, said resistor element including:

- a pair of side sections, each of said side sections connected to a respective one of said pair of electrodes along a substantial portion of a length of said pair of electrodes along said width, and

- not more than a single S-shaped section situated between said pair of side sections;

- wherein a width of said S-shaped section along said length of said substrate is less than a width of each of said side sections along said length of said substrate.

Claim 12. (Previously Added) The resistor of claim 11, wherein each of said side section includes a respective trimming groove formed therein.

Claim 13. (Previously Added) The resistor of claim 11, wherein said S-shaped section is free of trimming grooves.

Application No.: 09/871,309
Amendment dated: May 8, 2003
Reply to Final Office Action of: April 4, 2003

MAT-8140US

Claim 14. (Previously Added) The resistor of claim 12, wherein said S-shaped section is free of trimming grooves

Claim 15. (Cancelled).

Claim 16. (Previously Added) A resistor according to claim 11, wherein said resistor includes only a single S-shaped section.